Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously presented) A modular platform cooling apparatus, comprising: at least one plenum associated with the apparatus; and

a first and a second fan module configured to removably and independently engage the plenum, and each being designed to direct an airflow through a bottom of the first and second fan modules and out a respective rear portion of the first and second fan modules.

- 2. (Original) The modular platform cooling apparatus of Claim 1, wherein the first and second fan modules each include a plurality of fans arranged in a matrix array.
- 3. (Original) The modular platform cooling apparatus of Claim 2, wherein at least one of the first and second fan modules includes a matrix array of four fans positioned in a 2-across by 2-deep in-plane relationship.
- 4. (Original) The modular platform cooling apparatus of Claim 2, wherein at least one of the first and second fan modules has six fans positioned in a 3-across by 2deep in-plane relationship.
- 5. (Original) The modular platform cooling apparatus of Claim 2, wherein the fans have a center hub of a certain diameter and the fans positioned in the 2-deep relationship are separated by a distance that is proportional to and a function of the diameter of the hub.

- 2 -

Attorney's Docket No.: 110751-135443

IPN: P18017 (Intel Corporation)

Application No.: 10/748,309

- 6. (Original) The modular platform cooling apparatus of Claim 1, wherein at least one of the first and second fan modules may be removed from the at least one plenum while the other fan module continues to provide airflow through a modular platform.
- 7. (Original) The modular platform cooling apparatus of Claim 6 wherein the apparatus further comprises circuitry designed to allow the second fan module to be removably added to the apparatus while the apparatus, including the first fan module, is in operation.
- 8. (Original) The modular platform cooling apparatus of Claim 6, wherein the first fan module is designed to provide sufficient airflow capacity to cool (y/x)m modular platform boards at a specified capacity, where y equals the total number of side-by-side fans in the first fan module and x equals the total number of fans positioned side by side across an aggregate width of the modular platform, and m equals the total number of modular platform boards.
- 9. (Original) The modular platform cooling apparatus of Claim 8, wherein the first fan module will continue to provide airflow through the modular platform to support m modular platform boards and a capacity greater than 50% when the second fan module has been removed from the plenum.
- 10. (Original) The modular platform cooling apparatus of Claim 1, wherein the first and the second fan modules, when operating in conjunction with the other, are designed to provide sufficient airflow to cool 2m modular platform boards, where m equals the total number of modular platform boards.
- 11. (Cancelled)
- 12. (Previously presented) The modular platform cooling apparatus of Claim 1, wherein a width dimension requirement for the at least one plenum is less than or equal

- 3 -

Attorney's Docket No.: 110751-135443

IPN: P18017 (Intel Corporation)

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to 440 mm, and wherein the aggregate width of the first fan module and the second fan module is less than or equal to 440 mm.

- 13. (Previously presented) The modular platform cooling apparatus of Claim 1, wherein the modular platform maintains a less than or equal to 10-degrees Celsius temperature increase per modular platform board, where each modular platform board can generate up to 200 Watts.
- 14. (Previously presented) The modular platform cooling apparatus of Claim 13, wherein the modular platform has up to sixteen modular platform boards and the first fan module and the second fan module provide enough airflow to keep the temperature increase across any modular platform board to less than or equal to 10 degrees Celsius.
- 15. (Previously presented) A Modular platform, comprising: a plurality of modular platform boards; at least one plenum coupled to the modular platform; and a first and a second fan module configured to removably and independently engage the plenum, and each being designed to direct an airflow through a bottom of the first and second fan modules and out a respective rear portion of the first and second fan modules.
- 16. (Original) The modular platform of Claim 15, wherein the first and second fan modules each include a plurality of fans arranged in a matrix array.
- 17. (Original) The modular platform of Claim 16, wherein at least one of the first and second fan modules includes a matrix array of four fans positioned in a 2-across by 2-deep in-plane relationship.

- 4 -

Attorney's Docket No.: 110751-135443

Application No.: 10/748,309

IPN: P18017 (Intel Corporation)

- 18. (Original) The modular platform of Claim 16, wherein at least one of the first and second fan modules has six fans positioned in a 3-across by 2-deep in-plane relationship.
- 19. (Original) The modular platform of Claim 16, wherein the fans have a center hub of a certain diameter and the fans positioned in the 2-deep relationship are separated by a distance that is proportional to and a function of the diameter of the hub.
- 20. (Original) The modular platform of Claim 16, wherein at least one of the first and second fan modules may be removed from the at least one plenum while the other fan module continues to provide airflow through the modular platform.
- 21. (Original) The modular platform of Claim 20, wherein the modular platform further comprises circuitry designed to allow the second fan module to be removably added to the apparatus while the modular platform, including the first fan module, is in operation.
- 22. (Original) The modular platform of Claim 20, wherein the first fan module is designed to provide sufficient airflow capacity to cool (y/x)m modular platform boards at a specified capacity, where y equals the total number of side-by-side fans in the first fan module and x equals the total number of fans positioned side-by-side across an aggregate width of the modular platform, and m equals the total number of modular platform boards.
- 23. (Original) The modular platform of Claim 22, wherein the first fan module will continue to provide airflow through the modular platform to support m modular platform boards and a capacity greater than 50% when the second fan module has been removed from the plenum.

- 5 -

Attorney's Docket No.: 110751-135443 Application No.: 10/748,309

- 24. (Original) The modular platform of Claim 16, wherein the first and the second fan modules, when operating in conjunction with the other, are designed to provide sufficient airflow to cool 2m modular platform boards, m equals the total number of modular platform boards.
- 25. (Cancelled)
- 26. (Previously presented) The modular platform of Claim 15, wherein a width dimension requirement for the at least one plenum is less than or equal to 440 mm, and wherein the aggregate width of the first fan module and the second fan module is less than or equal to 440 mm.
- 27. (Previously presented) The modular platform of Claim 15, wherein the modular platform maintains a less than or equal to 10-degrees Celsius temperature increase per modular platform board, where the modular platform board can generate in excess of 200 Watts.
- 28. (Previously presented) The modular platform of Claim 27, wherein the modular platform has up to sixteen modular platform boards and the first fan module and the second fan module provide enough airflow to keep the temperature increase across any modular platform board to less than or equal to 10 degrees Celsius.
- 29. (Original) The modular platform of Claim 16, wherein the modular platform includes an intake plenum and an exhaust plenum.
- 30. (Original) The modular platform of Claim 29, wherein the first and second fan modules are positioned in the exhaust plenum.
- 31. (Original) The modular platform of Claim 16, wherein the first and second fan modules are configured as dual plenum fan modules, having a first portion acting as an

- 6 -

Attorney's Docket No.: 110751-135443

Application No.: 10/748,309

IPN: P18017 (Intel Corporation)

intake for an adjacent modular platform and a second portion acting as an exhaust for the modular platform.

- 32. (Original) The modular platform of Claim 31, wherein the height of the first and second fan modules is less than or equal to 2U.
- 33. (Previously presented) The modular platform cooling apparatus of claim 1 wherein the first fan module has a first number of fans and the second fan module has second number of fans, the first number is different from the second number.
- 34. (Previously presented) The modular platform of claim 15 wherein the first fan module has a first number of fans and the second fan module has second number of fans, the first number is different from the second number.